

# Series GT800

Industrial Pressure Transducers

# GT800



## Standard Features

- Stainless Steel Construction
- Traceable to NIST
- $\pm 0.25\%$  Accuracy
- Ranges to 30K
- Gage, Absolute, Vacuum Ranges

## Optional Features

- Alternate Materials of Construction
- Customer Specified Pressure Ports
- Alternate Electrical Connectors
- Temperature Compensation from  $-320^{\circ}\text{F}$  to  $+400^{\circ}\text{F}$
- Shunt Calibration

## Description

Rugged, long-lived and reliable, Bonded Foil Strain Gage Technology is the basis of the GT800 pressure transducer. It has inherently low sensitivity to shock and vibration, and provides an excellent response to transient pressures while providing infinite resolution.

The standard unit provides a 3mV/V output. As with all of STI's products, this unit offers many mechanical adaptations which compliment STI's "Application-Solutions" to meet the demands of today's marketplace. The brief specifications listed on the back are but a few of the more important parameters of interest. Make sure to contact the sales office closest to you for further definition.

**Your "Application-Solution<sup>SM</sup>" Source**

# Series GT800 Specifications

Baseline Configuration Specs Represented.  
Modifications Encouraged - See Below

## Performance

### Static Accuracy

± 0.25% FSO by BFSL.

### Resolution

Infinite.

### Thermal Error

< ± 0.020% FSO/°F typical.

### Input/Output Resistance

350 ± 20 ohms at 70°F.

### Insulation Resistance

Greater than 10K megaohms at 50 Vdc at 70°F.

### Zero Balance

± 2% FSO at 70°F.

### Full Scale Output

3mV/V ±0.05% FSO at 70°F.

### Frequency Response

Consult Factory.

## Mechanical Characteristics

### Standard Ranges

0 - 50, 100, 200, 500, 750, 1000, 3000, 5000, 7500, 10000, 15000, 20000, 25000 and 30000 PSIA / PSIG.

### Proof Pressure

1.5 times FSO range minimum.

### Burst Pressure

2.0 times FSO range minimum.

### Operating Media

Fluids and gases compatible with stainless steel. Inconel and other materials optional.

### Enclosure

Body of stainless steel.

### Pressure Fitting

1/4" NPT Male or Female.  
7/16"-20 per MS33649-4 (Female).  
7/16"-20 per MS33656-4 (Male).  
AE F250-C, 9/16-18 UNF for ranges 15,000 PSI & up.

### Weight

Approximately 5 ounces.

## Modifications

We realize transducer applications vary greatly and as such our designs are flexible. Choice of pressure port, electrical termination, material compatibility and performance characteristics are a few of the many options available. Specifications on this datasheet represent the standard configuration only. Product and company names listed are trademarks of their respective companies. Specifications subject to change without notice. See accessory listing for additional choices.

## Electrical Characteristics

### Excitation

10 Vdc recommended, 15 Vdc maximum.

### Electrical Connection

3' cable, Teflon wrap with shield.

## Environmental Characteristics

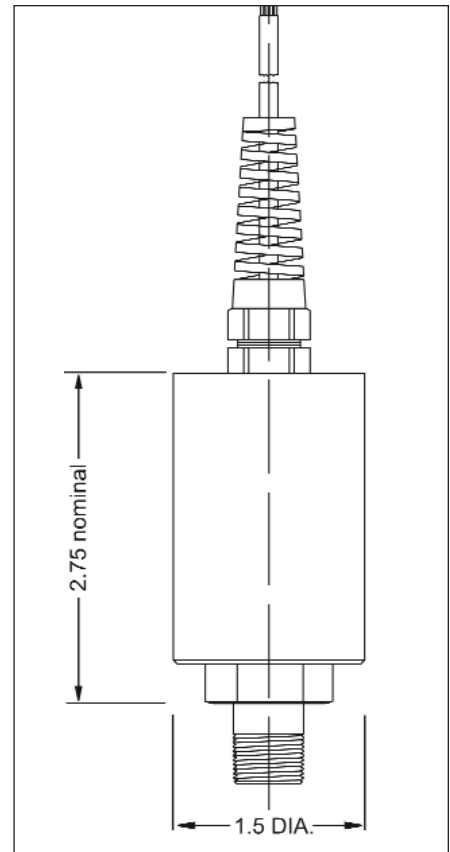
### Compensated Temperature Range

+30°F to +130°F.  
Options available.

### Operating Temperature Range

-100°F to +300°F.

## Dimensions (inches)



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## Represented By:



## Warranty

Stellar Technology warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Stellar Technology's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

## Ordering Information

Contact the factory or your Authorized  
Stellar Technology, Inc. Representative.



Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.